EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1641	(717/174-178).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 10:46
S2	0	S1 and ((distributed network) same installation same activation same dependencies same (software update) same (software package$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:29
S3	0	S1 and ((distributed network) and installation$1 and activation$1 and dependencies and (software update$1) and (software package$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:57
S4	55	S1 and (distributed network)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:30
S5	0	S1 and (distributed network) and (multiple nodes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:30
S6	29	S1 and (distributed network) and nodes	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:30
S7	8	S1 and (distributed network) and nodes and (software update)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:34

EAST Search History

S8	6	S1 and (distributed network) and nodes and (software update) and (dependent or dependencies or depend$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:41
S9	3	S1 and (distributed network) and embedded and multiple and master	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:47
S10	130	S1 and ((distributed network) or (network based))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:08
S11	6	S10 and (update$1 and package$1 and (rollback or regress))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 13:48
S12	127	S1 and ((distributed network) or (network based)) and (master or server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:09
S13	23	"127" and (installation same activation) and (software package$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:10
S14	0	"127" and (installation same activation) and (software package$1) and (softwaer update$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:11

EAST Search History

S15	0	S12 and (installation same activation) and (software package$1) and (softwaer update$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:11
S16	0	S12 and (installation same activation) and (software package$1) and (softwaer update$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:12
S17	1	S12 and (installation same activation) and (software package$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:13
S18	37	S12 and (installation) and (software package$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:13
S19	14	S12 and (installation) and (software package$1) and (software update$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 15:26
S20	107	S1 and (install$1 or installation$1) and (master or server) and (software package) and (update$1) and (dependencies or dependent or depend$1) and (version$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:19
S21	0	S1 and (install$1 or installation$1) and (master or server) and (software package) and (update$1) and (dependencies or dependent or depend$1) and (version$1) and (binary signature)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:20

EAST Search History

S22	107	S1 and (install$1 or installation$1) and (master or server) and (software package) and (update$1) and (dependencies or dependent or depend$1) and (version$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:20
S23	66	S1 and (install$1 or installation$1) and (master or server) and (software package) and (update$1) and (dependencies or dependent or depend$1) and (version$1) and (load$1 or loading)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 14:21
S24	14	S1 and (install$1 or installation$1) and (master or server) and (software package) and (update$1) and (dependencies or dependent or depend$1) and (version$1) and (load$1 or loading) and (evaluate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:13
S25	9	((distributed network) and installation$1 and activation$1 and dependencies and (software update$1) and (software package$1))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 15:21
S26	9	((distributed network) and installation$1 and dependencies and (software update$1) and (software package$1)) and rollback	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 15:21
S27	10	S12 and (installation) and (software package$1) and (software update$1) and (nodes)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 15:26
S28	7	S1 and (dynamic installation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:35

EAST Search History

S29	132	S1 and (installation same update) and (dependency or dependencies or dependent or depend$1) and package$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:36
S30	40	S29 and signature	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:37
S31	39	S29 and signature and (master or server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:38
S32	38	S29 and signature and (master or server) and network$1	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 16:39
S33	11	S29 and signature and (master or server) and network$1 and run$time	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 17:24
S34	20	S29 and restart	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 17:58
S35	0	S29 and (change$1over)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 17:59

EAST Search History

S36	0	S29 and (warm$start)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:00
S37	0	S1 and (warm$start)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:03
S38	41	S1 and (running process$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:03
S39	8	S1 and (installation same (running process$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:11
S40	10	S1 and ((load or installation or upgrade) same (running process$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:28
S41	142	S1 and ((load or installation or upgrade) same ((running process$2) or (run$1time)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:29
S42	72	S1 and ((load or installation or upgrade) same ((running process$2) or (run$1time)) same process$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:30

EAST Search History

S43	87	S1 and ((load or installation or upgrade or update) same ((running process$2) or (run$1time)) same process$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:30
S44	0	S1 and ((load or installation or upgrade or update) same ((running process$2) or (run$1time)) same process$2 same coordinate$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:31
S45	2	S1 and ((load or installation or upgrade or update) same ((running process$2) or (run$1time)) same process$2 same wait$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/05 18:31
S46	1646	(717/174-178).ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 10:46
S47	1646	S46	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 10:46
S48	557	S46 and (distributed and process$1 and update)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 10:47
S49	32	S46 and (distributed same process$1 same update)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:02

EAST Search History

S50	1	S46 and (distributed same process$1 same update) and process and stand$1by	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:05
S51	5	S46 and (distributed same process$1 same update) and dynamic and (activate$1 or activation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:06
S52	0	S46 and (distributed same process$1 same update) and (dynamic installation) and (activate$1 or activation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:06
S53	0	S46 and (distributed same process$1 same update) and (dynamic installation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:07
S54	0	S46 and (distributed same process$1 same update) and (runtime installation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 11:07
S55	0	S46 and (distributed same process$1 same update) and (runtime near5 installation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 12:53
S56	14	S46 and (runtime near5 installation)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2007/04/12 12:53

Terms used **runtime software installation architecture**

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1 Architecture-based runtime software evolution

Peyman Oreizy, Nenad Medvidovic, Richard N. Taylor

April 1998 **Proceedings of the 20th international conference on Software engineering ICSE '98**

Publisher: IEEE Computer Society

Full text available: pdf(1.28 MB) Additional Information: full citation, references, citings, index terms

Publisher Site

2 Software domain modeling and meta-modeling: Performance evaluation of domain reference architectures

K. Suzanne Barber, Jim Holt, Geoff Baker

July 2002 **Proceedings of the 14th international conference on Software engineering and knowledge engineering SEKE '02**

Publisher: ACM Press

Full text available: pdf(276.15 KB) Additional Information: full citation, abstract, references, index terms

Architectures embody the requirements expressed by system stakeholders, and the type of architecture used to capture a given set of requirements dictates when evaluation can occur and what will be evaluated. This research aims to leverage requirements and a resulting architecture dictated by the problem domain and captured early in the lifecycle. Thus, the research goal is to provide early performance evaluation in an effort to convey the most accurate blueprint to system implementers specifical ...

Keywords: performance, software architecture

3 Q focus: patch and deploy: On plug-ins and extensible architectures

Dorian Birsan

March 2005 **Queue**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(794.65 KB) html(25.42 KB) Additional Information: full citation, abstract, index terms

Extensible application architectures such as Eclipse offer many advantages, but one must be careful to avoid "plug-in hell."

4 From product lines to self-managed systems: an architecture-based runtime reconfiguration framework

Minseong Kim, Jaemin Jeong, Sooyong Park

May 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2005 workshop on Design and evolution of autonomic application software DEAS '05**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(446.58 KB) Additional Information: full citation, abstract, references, index terms

Adaptability and/or high availability are requirements which have become more prevalent and important for computing systems in recent years. To support adaptability and availability, a system must be able to dynamically change its behavior at runtime as user requirements, execution environments, or technologies change. Our aim is to develop a dynamic software product line in which a product line member can be dynamically modified after its deployment and thus new products can be produced during ...

5 Providing middleware-level facilities to support architecture-based development of software systems in pervasive environments

Sam Malek, Chiyoung Seo, Sharmila Ravula, Brad Petrus, Nenad Medvidovic

November 2006 **Proceedings of the 4th international workshop on Middleware for Pervasive and Ad-Hoc Computing (MPAC 2006) MPAC '06**

Publisher: ACM Press

Full text available: pdf(357.29 KB) Additional Information: full citation, abstract, references, index terms

Software architecture has been widely advocated as an effective abstraction for modeling, implementing, and evolving complex software systems such as those in distributed, decentralized, heterogeneous, mobile, and pervasive environments. Typically, however, architectural abstractions have not been supported directly at the level of system implementation. Instead, even developers with access to state-of-the-art middleware facilities have had to rely on constructs that are at least in part differe ...

Keywords: Prism-MW, pervasive computing, software architecture

6 Process modeling in Web applications

Marco Brambilla, Stefano Ceri, Piero Fraternali, Ioana Manolescu

October 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 4

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

While Web applications evolve towards ubiquitous, enterprise-wide or multienterprise information systems, they face new requirements, such as the capability of managing complex processes spanning multiple users and organizations, by interconnecting software provided by different organizations. Significant efforts are currently being invested in application integration, to support the composition of business processes of different companies, so as to create complex, multiparty business scenarios. ...

Keywords: Web applications, Web engineering, conceptual modeling, worfklows

7 Impala: a middleware system for managing autonomic, parallel sensor systems

Ting Liu, Margaret Martonosi

June 2003 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '03**, Volume 38 Issue 10

Publisher: ACM Press

Full text available: pdf(684.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Sensor networks are long-running computer systems with many sensing/compute nodes working to gather information about their environment, process and fuse that information, and in some cases, actuate control mechanisms in response. Like traditional parallel systems, communication between nodes is of fundamental importance, but is typically accomplished via wireless transceivers. One further key attribute of sensor networks is that they are almost always long running systems, intended to operate i ...

Keywords: middleware system, sensor networks, software adaptation, software update

8 Full papers: A case study in software adaptation

Giuseppe Valetto, Gail Kaiser

November 2002 **Proceedings of the first workshop on Self-healing systems WOSS '02**
Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

We attach a feedback-control-loop infrastructure to an existing target system, to continually monitor and dynamically adapt its activities and performance. (This approach could also be applied to "new" systems, as an alternative to "building in" adaptation facilities, but we do not address that here.) Our infrastructure consists of multiple layers, with the objectives of 1. probing, measuring and reporting of activity and state during the execution of the target system among its components and c ...

Keywords: coordination, distributed systems, dynamic adaptation, dynamic reconfiguration, perpetual testing, software process enactment, workflow

9 Improving software security via runtime instruction-level taint checking

Jingfei Kong, Cliff C. Zou, Huiyang Zhou
October 2006 **Proceedings of the 1st workshop on Architectural and system support for improving software dependability ASID '06**
Publisher: ACM Press

Full text available: pdf(382.52 KB) Additional Information: full citation, abstract, references, index terms

Current taint checking architectures monitor tainted data usage mainly with control transfer instructions. An alarm is raised once the program counter becomes tainted. However, such architectures are not effective against non-control data attacks. In this paper we present a generic instruction-level runtime taint checking architecture for handling non-control data attacks. Under our architecture, instructions are classified as either Taintless-Instructions or Tainted-Instructions prior to progra ...

Keywords: buffer overflow, format string, hardware tagging

10 Technical papers: software process: Using process technology to control and coordinate software adaptation

Giuseppe Valetto, Gail Kaiser
May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**
Publisher: IEEE Computer Society

Full text available: pdf(1.30 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

We have developed an infrastructure for end-to-end run-time monitoring, behavior/performance analysis, and dynamic adaptation of distributed software. This infrastructure is primarily targeted to pre-existing systems and thus operates <u>outside</u> the target application, without making assumptions about the target's implementation, internal communication/computation mechanisms, source code availability, etc. This paper assumes the existence of the monitoring and analysis components ...

11 PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platforms

E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes
March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1
Publisher: ACM Press

Full text available: pdf(26.30 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK for modeling physical objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK incorporates many PDE solving systems, and some of these, in turn, include several specific PDE solving methods. Its coverage for 1D, 2D. and 3D elliptic or parabolic problems is quite

broad, and it handles some hyperbolic problems, Since a PSE should p ...

Keywords: PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem-solving environments, programming-in-the-large, sofeware bus

12 Article abstracts with full text online: A mobile agent approach to dynamic architecture-based software adaptation

Qun Yang, Xianchun Yang, Manwu Xu

May 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(365.65 KB) Additional Information: full citation, abstract, references, index terms

Increasingly, software are required to be ready to adapt itself to the changing environment caused by a wide range of maintenance, evolution and operation problems. Furthermore, in large complex distributed systems and continuous running systems, the traditional approaches to bringing about change require that the system be taken offline temporarily, which is often undesirable due to requirements for high availability. To address this new kind of capability, dynamic software adaptation, which re ...

Keywords: architectural reflection, architectural style, architecture meta-model, dynamic software adaptation, dynamic software architecture, mobile agents

13 Balancing performance and flexibility with hardware support for network architectures

Ilija Hadžić, Jonathan M. Smith

November 2003 **ACM Transactions on Computer Systems (TOCS)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(719.03 KB) Additional Information: full citation, abstract, references, index terms

The goals of performance and flexibility are often at odds in the design of network systems. The tension is common enough to justify an architectural solution, rather than a set of context-specific solutions. The Programmable Protocol Processing Pipeline (P4) design uses programmable hardware to selectively accelerate protocol processing functions. A set of field-programmable gate arrays (FPGAs) and an associated library of network processing modules implemented in hardware are augmented with so ...

Keywords: FPGA, P4, computer networking, flexibility, hardware, performance, programmable logic devices, programmable networks, protocol processing

14 LLVM: A Compilation Framework for Lifelong Program Analysis & Transformation

Chris Lattner, Vikram Adve

March 2004 **Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization CGO '04**

Publisher: IEEE Computer Society

Full text available: pdf(256.90 KB) Additional Information: full citation, abstract, citings, index terms

This paper describes LLVM (Low Level Virtual Machine),a compiler framework designed to support transparent, lifelongprogram analysis and transformation for arbitrary programs,by providing high-level information to compilertransformations at compile-time, link-time, run-time, and inidle time between runs.LLVM defines a common, low-levelcode representation in Static Single Assignment (SSA) form,with several novel features: a simple, language-independenttype-system that exposes the primitives commo ...

15 Access control: SecureBus: towards application-transparent trusted computing with mandatory access control

Xinwen Zhang, Michael J. Covington, Songqing Chen, Ravi Sandhu

March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available: pdf(154.95 KB) Additional Information: full citation, abstract, references, index terms

The increasing number of software-based attacks has attracted substantial efforts to

prevent applications from malicious interference. For example, Trusted Computing (TC) technologies have been recently proposed to provide strong isolation on application platforms. On the other hand, today pervasively available computing cycles and data resources have enabled various distributed applications that require collaboration among different application processes. These two conflicting trends grow in pa ...

Keywords: SecureBus, mandatory access control, secure platform, trusted computing

16 LLVA: A Low-level Virtual Instruction Set Architecture

Vikram Adve, Chris Lattner, Michael Brukman, Anand Shukla, Brian Gaeke

December 2003 **Proceedings of the 36th annual IEEE/ACM International Symposium on Microarchitecture MICRO 36**

Publisher: IEEE Computer Society

Full text available: pdf(196.08 KB) Additional Information: full citation, abstract, citings, index terms

A virtual instruction set architecture (V-ISA) implementedvia a processor-specific software translation layercan provide great flexibility to processor designers. Recentexamples such as Crusoe and DAISY, however, haveused existing hardware instruction sets as virtual ISAs,which complicates translation and optimization. In fact,there has been little research on specific designs for a virtualISA for processors. This paper proposes a novel virtualISA (LLVA) and a translation strategy for implementi ...

17 Embedded, ubiquitous, and adaptive systems: Tailoring an architectural middleware platform to a heterogeneous embedded environment

Sam Malek, Chiyoung Seo, Nenad Medvidovic

November 2006 **Proceedings of the 6th international workshop on Software engineering and middleware SEM '06**

Publisher: ACM Press

Full text available: pdf(665.95 KB) Additional Information: full citation, abstract, references

Embedded systems are rapidly growing in size, complexity, distribution, and heterogeneity. As a result, the traditional practice of developing one-off embedded applications that are often rigid and unmanageable is no longer acceptable. Recent studies have suggested that an effective approach to developing software systems in this domain is to employ the principles of software architecture. However, for software architectural concepts to be truly useful in a development setting, they must be acco ...

18 A web based environment for learning to program

Nghi Truong, Peter Bancroft, Paul Roe

February 2003 **Proceedings of the 26th Australasian computer science conference - Volume 16 ACSC '03**

Publisher: Australian Computer Society, Inc.

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of this paper is to describe in detail the current development status of the innovative Environment for Learning to Program (ELP) which provides an interactive web-based environment for teaching programming to the first year Information Technology students at Queensland University of Technology (QUT). ELP allows students to program at the early stages of their course without the need to familiarize themselves with a program development environment. Most importantly, it eliminates all ...

Keywords: Java, XML, computer programming, online learning, tutoring system, web

19 Towards a unified formal model for supporting mechanisms of dynamic component update

Junrong Shen, Xi Sun, Gang Huang, Wenpin Jiao, Yanchun Sun, Hong Mei

September 2005 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 10th European software engineering conference held jointly with 13th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-13**, Volume 30 Issue 5

Publisher: ACM Press

Full text available: pdf(268.30 KB) Additional Information: full citation, abstract, references, citings, index terms

The continuous requirements of evolving a delivered software system and the rising cost of shutting down a running software system are forcing researchers and practitioners to find ways of updating software as it runs. Dynamic update is a kind of software evolution that updates a running program without interruption. This paper covers the fundamental issues of the mechanisms of dynamic update theoretically. Based on a similarity analysis of many typical approaches to dynamic update during the pa ...

Keywords: CSP, architectural connector, dynamic update, software architecture

20 Continuous program optimization: A case study

Thomas Kistler, Michael Franz

July 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(877.67 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, and the inability of systems to adapt to users' behaviors.A solution to these problems is to delay code generation until load time. This is the earliest point at which a piece of software can be fine-tuned to the actual capabilities of the ...

Keywords: Dynamic code generation, continuous program optimization, dynamic reoptimization

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21 Keynote talks: Development of software engineering: co-operative efforts from academia, government and industry

Fuqing Yang, Hong Mei

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available: pdf(964.24 KB) Additional Information: full citation, abstract, references, index terms

In the past 40 years, software engineering has emerged as an important sub-field of computer science. The quality and productivity of software have been improved and the cost and risk of software development been decreased due to the contributions made in this sub-field. The software engineering community needs to invest much more efforts to cope with the drastically increasing demands on the information technology as well as the extremely open and dynamic nature of the Internet. The history of ...

22 Fast detection of communication patterns in distributed executions

24 The architecture of a UML virtual machine

Dirk Riehle, Steven Fraleigh, Dirk Bucka-Lassen, Nosa Omorogbe

October 2001 **ACM SIGPLAN Notices , Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications OOPSLA '01**, Volume 36 Issue 11

Publisher: ACM Press

Full text available: pdf(180.24 KB) Additional Information: full citation, abstract, references, citings, index terms

Current software development tools let developers model a software system and generate program code from the models to run the system. However, generating code and installing a non-trivial system induces a time delay between changing the model and executing it that makes rapid model prototyping awkard if not impossible. This paper presents the architecture of a virtual machine for UML that interprets UML models without any intermediate code-generation step. The paper shows how to embed UML in a ...

25 Report from the first annual workshop on software architectures in product line acquisitions

Edward A. Addy

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: pdf(977.30 KB) Additional Information: full citation, index terms

26 Middleware for mobility: Dynamically programmable and reconfigurable middleware services

Manuel Roman, Nayeem Islam

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware Middleware '04**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(651.39 KB) Additional Information: full citation, abstract, references, citings

The increasing software complexity and proliferation of distributed applications for cell phones demand the introduction of middleware services to assist in the development of advanced applications. However, from the user perspective, it is essential that these new phones provide a smooth error-free experience. Despite of the complexity underlying a cell phone, placing a phone call remains a simple task that can be performed by most users regardless of their technical background. Furthermore, ce ...

27 Embedded device solution life cycle support with Eclipse

ChangWoo Jung, Han Chen

October 2006 **Proceedings of the 2006 OOPSLA workshop on eclipse technology eXchange eclipse '06**

Publisher: ACM Press

Full text available: pdf(451.33 KB) Additional Information: full citation, abstract, references

The effectiveness of life cycle management of an embedded device solution is crucial to its value proposition. This paper shows that Eclipse technology can be used for both tooling and runtime support of device solutions using a visual flow language. We introduce a prototype implementation based on Eclipse 3.2 and Equinox and demonstrate that it helps a user in each stage of a solution life cycle.

28 Power awareness: A docked-aware storage architecture for mobile computing

Christopher R. LaRosa, Mark W. Bailey

April 2004 **Proceedings of the 1st conference on Computing frontiers CF '04**

Publisher: ACM Press

Full text available: pdf(179.38 KB) Additional Information: full citation, abstract, references, index terms

We explore how the power-abundant docked state of mobile devices can be exploited to reduce power consumption during mobile operation and expand the capabilities of portable devices. We propose a storage hierarchy, which includes a hard disk, a large low-

power cache, and a docked-aware file system that lowers the average power cost of file access from the disk while retaining the storage capacity of the disk. We investigate how hoarding files in low-power memory during a power-abundant docked st ...

Keywords: battery life, caching, docked, energy, file system, handheld, hoarding, palmtop, power

29 Shield: vulnerability-driven network filters for preventing known vulnerability exploits

Helen J. Wang, Chuanxiong Guo, Daniel R. Simon, Alf Zugenmaier

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: pdf(242.89 KB) Additional Information: full citation, abstract, references, citings, index terms

Software patching has not been effective as a first-line defense against large-scale worm attacks, even when patches have long been available for their corresponding vulnerabilities. Generally, people have been reluctant to patch their systems immediately, because patches are perceived to be unreliable and disruptive to apply. To address this problem, we propose a first-line worm defense in the network stack, using *shields* -- vulnerability-specific, exploit-generic network filters install ...

Keywords: generic protocol analyzer, network filter, patching, vulnerability signature, worm defense

30 A Framework for the Deployment of Self-Managing and Self-Configuring Components in Autonomic Environments

Eleni Patouni, Nancy Alonistioti

June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**

Publisher: IEEE Computer Society

Full text available: pdf(192.33 KB) Additional Information: full citation, abstract, index terms

Over the last two decades, the advent of the Internet coupled with the diverse philosophy of networks, formed the basis for a pervasive computing environment. In the latter, the current trend is defined by the concept of autonomic computing and communications, which lies in the introduction of automated functions that enhance the intelligence of existing computing and communication systems. This concept forms a new paradigm of systems with selfware capabilities that will automatically adapt thei ...

31 Grid and races: Multi-environment software testing on the grid

Alexandre Duarte, Gustavo Wagner, Francisco Brasileiro, Walfredo Cirne

July 2006 **Proceeding of the 2006 workshop on Parallel and distributed systems: testing and debugging PADTAD '06**

Publisher: ACM Press

Full text available: pdf(538.49 KB) Additional Information: full citation, abstract, references, index terms

We propose a solution to improve the confidence on the correctness of applications designed to be executed in heterogeneous environments, like a grid. Our solution is motivated by the observation that the traditional ways to qualify test processes are based on code coverage metrics. We believe that this approach is not adequate when dealing with applications that can (and do) fail when interacting with heterogeneous execution environments. Besides code coverage, tests must also cover possible en ...

Keywords: JUnit, computational grid, distributed testing, unit testing

32 Conscientious software

Richard P. Gabriel, Ron Goldman

October 2006 **ACM SIGPLAN Notices , Proceedings of the 21st annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and**

applications OOPSLA '06, Volume 41 Issue 10
Publisher: ACM Press

Full text available: pdf(1.52 MB) Additional Information: full citation, abstract, references, citings, index terms

Software needs to grow up and become responsible for itself and its own future by participating in its own installation and customization, maintaining its own health, and adapting itself to new circumstances, new users, and new uses. To create such software will require us to change some of our underlying assumptions about how we write programs. A promising approach seems to be to separate software that does the work (allopoietic)from software that keeps the system alive (autopoietic).

Keywords: autopoiesis, continuous (re)design, emergence, feedback, repair, robustness, self-sustaining systems, self-testing, software, software complexity, stigmergy

33 Data protection and data sharing in telematics

Sastry Duri, Jeffrey Elliott, Marco Gruteser, Xuan Liu, Paul Moskowitz, Ronald Perez, Moninder Singh, Jung-Mu Tang
December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(303.67 KB) Additional Information: full citation, abstract, references, index terms

Automotive telematics may be defined as the information-intensive applications enabled for vehicles by a combination of telecommunications and computing technology. Telematics by its nature requires the capture, storage, and exchange of sensor data to obtain remote services. Such data likely include personal, sensitive information, which require proper handling to protect the driver's privacy. Some existing approaches focus on protecting privacy through anonymous interactions or by stopping i ...

Keywords: automotive telematics, data protection architecture, privacy policies

34 Building a robust software-based router using network processors

Tammo Spalink, Scott Karlin, Larry Peterson, Yitzchak Gottlieb
October 2001 **ACM SIGOPS Operating Systems Review , Proceedings of the eighteenth ACM symposium on Operating systems principles SOSP '01**, Volume 35 Issue 5
Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

Recent efforts to add new services to the Internet have increased interest in software-based routers that are easy to extend and evolve. This paper describes our experiences using emerging network processors---in particular, the Intel IXP1200---to implement a router. We show it is possible to combine an IXP1200 development board and a PC to build an inexpensive router that forwards minimum-sized packets at a rate of 3.47Mpps. This is nearly an order of magnitude faster than existing pure PC-base ...

35 Modeling and rendering II: Function-based shape modeling and visualization in X3D

Qi Liu, Alexei Sourin
April 2006 **Proceedings of the eleventh international conference on 3D web technology Web3D '06**
Publisher: ACM Press
Full text available: pdf(560.05 KB) Additional Information: full citation, abstract, references, index terms

In this paper, a function-based extension of Extensible 3D (X3D) is proposed. The extension allows authors to use analytical functions to define geometry, color, 3D texture as well as operations on 3D shapes or time-dependent metamorphoses. The functions can be implicit, parametric or explicit functions, defined as analytical formulas or scripts with similar syntax as ECMAScripts. The extension allows authors to benefit from both the compactness of function-based models and the new features in E ...

Keywords: 3D web visualization, X3D, computer animation, function-based shape modeling, metamorphose

36 Middleware: A reflective middleware for controlling smart objects from mobile devices

Diego López de Ipiña, Iñaki Vázquez, Daniel García, Javier Fernández, Iván García

October 2005 **Proceedings of the 2005 joint conference on Smart objects and ambient intelligence: innovative context-aware services: usages and technologies sOc-EUSAI '05**

Publisher: ACM Press

Full text available: pdf(199.19 KB) Additional Information: full citation, abstract, references

Mobile devices are mainly used for communication, entertainment, and as electronic assistants. However, their increasing computational, storage, communicational and multimedia capabilities make them suitable for previously unexpected scenarios such as Ambient Intelligence (AmI). Thus, mobile devices may be used as intermediaries between us and the smart objects (everyday objects augmented with computational services) in our surroundings. This paper describes the design and implementation of a mi ...

37 Workshops of CASCON 2005/Ateliers de CASCON 20005

James R. Cordy, Anatol W. Kark

October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available: pdf(650.23 KB) Additional Information: full citation, index terms

38 Supporting mobility in publish/subscribe middleware: The design of a configurable, extensible and dynamic notification service

Roberto S. Silva Filho, Cleidson R. B. de Souza, David F. Redmiles

June 2003 **Proceedings of the 2nd international workshop on Distributed event-based systems DEBS '03**

Publisher: ACM Press

Full text available: pdf(118.25 KB) Additional Information: full citation, abstract, references, citings, index terms

Publish/subscribe infrastructures, specifically notification servers, are used in a large spectrum of distributed applications as their basic communication and integration infrastructure. With their recent popularization, notification servers are being developed to support specific application domains. At the same time, general-purpose notification servers provide a large set of functionality for a broad set of applications. With so many options, developers face the dilemma of choosing between a ...

Keywords: dynamic architecture, event-based middleware, notification servers, pluggable architecture

39 Increasing the confidence in off-the-shelf components: a software connector-based approach

Marija Rakic, Nenad Medvidovic

May 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001 symposium on Software reusability: putting software reuse in context SSR '01**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: pdf(759.03 KB) Additional Information: full citation, abstract, references, citings, index terms

The promise of component-based software development is that larger, more complex systems can be built reasonably quickly and reliably from pre-fabricated (" off-the-shelf") building blocks. Additionally, such systems can be upgraded incrementally, simply by replacing individual components with their new versions. However, practice has shown that while it may improve certain aspects of an existing component, a new component version frequently introduces unforeseen problems. These ...

40 Move to component based architectures: introducing Microsoft's .NET platform into

the college classroom
Meg Murray
January 2004 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 3
Publisher: Consortium for Computing Sciences in Colleges

Full text available: pdf(45.40 KB) Additional Information: full citation, abstract, references, citings, index terms

A transformation has been occurring in the architectural model for computer-based application intense software systems. This new model, software-as-a-service, will have a profound impact on the design and development of software for many years to come and as such college level computing curriculums will need to incorporate the concepts and methodologies associated with this new architecture. The platform is built upon a view of interrelated, distributed peer-level software modules and components ...

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41 Features: Commercializing Open Source Software

Michael J. Karels

July 2003 **Queue**, Volume 1 Issue 5

Publisher: ACM Press

Full text available: pdf(1.11 MB) html(38.31 KB) Additional Information: full citation, abstract, citings, index terms

Many have tried, a few are succeeding, but challenges abound.

42 Terminology for Software Engineering Environment (SEE) and Computer-Aided Software Engineering (CASE)

B. Terry, D. Logee

April 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 2

Publisher: ACM Press

Full text available: pdf(884.43 KB) Additional Information: full citation, index terms

43 Partial evaluation for software engineering

C. Consel, L. Hornof, R. Marlet, G. Muller, S. Thibault, E.-N. Volanschi, J. Lawall, J. Noyé

September 1998 **ACM Computing Surveys (CSUR)**

Publisher: ACM Press

Full text available: pdf(128.72 KB) Additional Information: full citation, references, citings, index terms

44 Product lines & processes: Introducing the puLSE approach to an embedded system population at testo AG

Klaus Schmid, Isabel John, Ronny Kolb, Gerald Meier

May 2005 **Proceedings of the 27th international conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: pdf(310.63 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

Over the last few years, product line engineering has become a major theme in software engineering research, and is increasingly becoming a central topic of software engineering practice in the embedded domain.Migrating towards a product line approach is not an easy feat. It is even less so, if it is done under tight technology constraints in an embedded environment. It becomes even more difficult if the transition directly aims at integrating two product families into a single product populatio ...

Keywords: product line introduction, software product line, systematic software reuse, technology transfer

45 Future of simulation: Simulation in the international IMS MISSION project: the IMS MISSION architecture for distributed manufacturing simulation

Charles McLean, Frank Riddick

December 2000 **Proceedings of the 32nd conference on Winter simulation WSC '00**

Publisher: Society for Computer Simulation International

Full text available: pdf(269.47 KB) Additional Information: full citation, abstract, references, citings

This paper presents an overview of a neutral reference architecture for integrating distributed manufacturing simulation systems with each other, with other manufacturing software applications, and with manufacturing data repositories. Other manufacturing software applications include, but are not limited to systems used to: 1) design products, 2) specify processes, 3) engineer manufacturing systems, and 4) manage production. The architecture identifies the software building blocks and interface ...

46 ASHs: application-specific handlers for high-performance messaging

Deborah A. Wallach, Dawson R. Engler, M. Frans Kaashoek

August 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 4

Publisher: IEEE Press

Full text available: pdf(174.62 KB) Additional Information: full citation, references, index terms

Keywords: computer networks, dynamic code generation, modular computer systems, operating systems, protocols, software protection, user-level networking

47 Workshop papers: Modeling and implementing variability in state machine based process family architectures for automotive systems

Arnd Schnieders

May 2006 **Proceedings of the 2006 international workshop on Software engineering for automotive systems SEAS '06**

Publisher: ACM Press

Full text available: pdf(396.23 KB) Additional Information: full citation, abstract, references, index terms

In this paper we present an approach for modeling UML State Machine based process family architectures, which is part of our work to transfer Product Family Engineering techniques to process oriented software like automotive systems. For modeling UML State Machine based architectures of automotive system families we introduce a set of variability mechanisms. These allow for taking the different properties of variability realization techniques into account during the development of a process fami ...

Keywords: UML 2.0 state machines, automotive, process family engineering, product family architecture, variability mechanisms

48 Service configuration management

Eelco Dolstra, Martin Bravenboer, Eelco Visser

September 2005 **Proceedings of the 12th international workshop on Software configuration management SCM '05**

Publisher: ACM Press

Full text available: pdf(526.11 KB) Additional Information: full citation, abstract, references

The deployment of services --- sets of running programs that provide some useful facility on a system or network --- is typically implemented through a manual, time-consuming and error-prone process. For instance, system administrators must deploy the necessary software components, edit configuration files, start or stop processes, and so on. This is often done in an *ad hoc* style with no reproducibility, violating proper configuration management practices. In this paper we show that build ...

49 Experience in using business scenarios to assess COTS components in integrated solutions

Sharon Lymer, WenQian Liu, Steve Easterbrook
October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies on Collaborative research CASCON '05**
Publisher: IBM Press
Full text available: pdf(2.99 MB) Additional Information: full citation, abstract, references, index terms

Constructing software by integrating commercial off-the-shelf (COTS) components is widely practised, particularly in the IT service industry. For vendors of COTS components, requirements engineering is particularly challenging. To continually improve their products, vendors must identify and analyze problems that occur when their components are used in a wide variety of integrated solutions, and they must anticipate new applications in which their components could be used. In this paper, we desc ...

Keywords: business scenario, commercial-off-the-shelf (COTS), software integration

50 Trustworthy systems: Symmetric behavior-based trust: a new paradigm for internet computing
Vivek Haldar, Michael Franz
September 2004 **Proceedings of the 2004 workshop on New security paradigms NSPW '04**
Publisher: ACM Press
Full text available: pdf(76.86 KB) Additional Information: full citation, abstract, references

Current models of Internet Computing are highly asymmetric - a host protects itself from malicious mobile Java programs, but there is no way to get assurances about the behavior of a program running remotely. The asymmetry stems from a behavior-based security model: hosts ensure conformance to a given security policy by restricting the actions of programs. In contrast, security models that are based on cryptography (including code signing) are inherently symmetric by design but do not match the ...

51 Self-organizing systems: Ad hoc extensibility and access control
Úlfar Erlingsson, John MacCormick
July 2006 **ACM SIGOPS Operating Systems Review**, Volume 40 Issue 3
Publisher: ACM Press
Full text available: pdf(200.54 KB) Additional Information: full citation, abstract, references, index terms

General-purpose, commercial software platforms are increasingly used as system building blocks, even for dependable systems. One reason for their generality, usefulness, and popular adoption is that these software platforms can evolve through *ad hoc extensions:* behavior tweaks outside the scope of supported platform interfaces. Unfortunately, such use of internal platform implementation details is fundamentally incompatible with security and reliability. Even so, platforms that exclude ad ...

52 ASHs: Application-specific handlers for high-performance messaging
Deborah A. Wallach, Dawson R. Engler, M. Frans Kaashoek
August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96**, Volume 26 Issue 4
Publisher: ACM Press
Full text available: pdf(174.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Application-specific safe message handlers (ASHs) are designed to provide applications with hardware-level network performance. ASHs are user-written code fragments that safely and efficiently execute in the kernel in response to message arrival. ASHs can direct message transfers (thereby eliminating copies) and send messages (thereby reducing send-response latency). In addition, the ASH system provides support for dynamic integrated layer processing (thereby eliminating duplicate message ...

53 Papers: The implications of network-centric software systems on software architecture: a critical evaluation
Amine Chigani, James D. Arthur
March 2007 **Proceedings of the 45th annual southeast regional conference ACM-SE**

45

Publisher: ACM Press

Full text available: pdf(314.24 KB) Additional Information: full citation, abstract, references, index terms

The purpose of this paper is to evaluate the impact of emerging network-centric software systems on the field of software architecture. We first develop an insight concerning the term "network-centric" by presenting its origin and its implications within the context of software architecture. On the basis of this insight, we present our definition of a network-centric framework and its distinguishing characteristics. We then enumerate the challenges that face the field of software architecture ...

Keywords: architectural design, architectural style, component-and-connector, network-centric, software architecture, system of systems, viewtypes

54 Session 1A: agent oriented software engineering: ROADMAP: extending the gaia methodology for complex open systems

Thomas Juan, Adrian Pearce, Leon Sterling

July 2002 **Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 1 AAMAS '02**

Publisher: ACM Press

Full text available: pdf(221.94 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper is concerned with improving the software engineering of agent-based open systems. It critiques the existing Gaia methodology in the light of a motivating example of intelligent home networks. It describes the ROADMAP1 methodology, which extends Gaia with four improvements - formal models of knowledge and the environment, role hierarchies, explicit representation of social structures and relationships, and incorporation of dynamic changes.

Keywords: agent organization, agent oriented software engineering, knowledge model, methodology, multi-agent system, open system

55 An architectural approach to building systems from COTS software components

Mark R. Vigder, John Dean

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97**

Publisher: IBM Press

Full text available: pdf(253.02 KB) Additional Information: full citation, abstract, references, citings, index terms

As software systems become increasingly complex to build developers are turning more and more to integrating pre-built components from third party developers into their systems. This use of Commercial Off-The-Shelf (COTS) software components in system construction presents new challenges to system architects and designers. This paper is an experience report that describes issues raised when integrating COTS components, outlines strategies for integration, and presents some informal rules we have ...

56 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(6.94 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

57 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(2.16 MB) Additional Information: full citation, references, citings, index terms

58 The role of software architecture in constraining adaptation incomponent-based middleware platforms

Gordon S. Blair, Lynne Blair, Valéie Issarny, Petr Tuma, Apostolos Zarras

April 2000 **IFIP/ACM International Conference on Distributed systems platforms Middleware '00**

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(262.73 KB) Additional Information: full citation, abstract, references, citings

Future middleware platforms will need to be more *configurable* in order to meet the demands of a wide variety of application domains. Furthermore, we believe that such platforms will also need to be *re-configurable*, for example to enable systems to adapt to changes in the underlying systems infrastructure. A number of technologies are emerging to support this level of configurability and re-configurability, most notably middleware platforms based on the concepts of open implement ...

59 Router plugins: a software architecture for next generation routers

Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner

October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '98**, Volume 28 Issue 4

Publisher: ACM Press

Full text available: pdf(1.82 MB) Additional Information: full citation, abstract, references, citings, index terms

Present day routers typically employ monolithic operating systems which are not easily upgradable and extensible. With the rapid rate of protocol development it is becoming increasingly important to dynamically upgrade router software in an incremental fashion. We have designed and implemented a high performance, modular, extended integrated services router software architecture in the NetBSD operating system kernel. This architecture allows code modules, called *plugins*, to be dynamically ...

Keywords: high performance integrated services routing, modular router architecture, router plugins

60 Service creation and management in active telecom networks

Marcus Brunner, Bernhard Plattner, Rolf Stadler

April 2001 **Communications of the ACM**, Volume 44 Issue 4

Publisher: ACM Press

Full text available: pdf(97.90 KB) html(34.77 KB) Additional Information: full citation, references, citings, index terms, review

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